# 25 mm LASER TRACKBALL

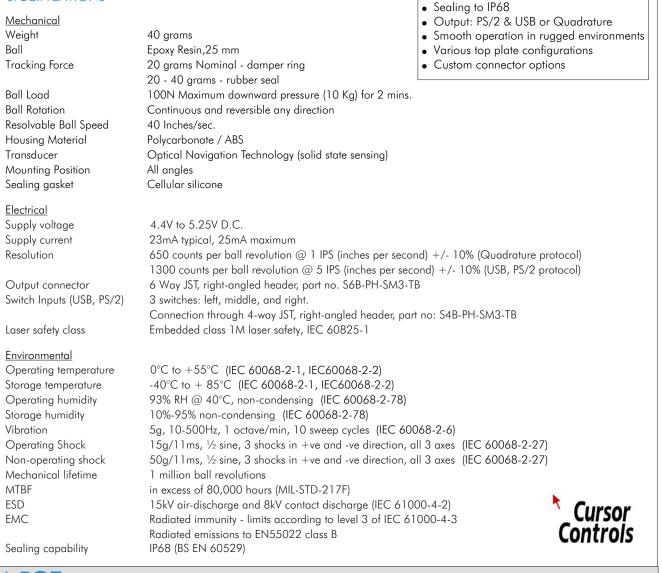
### X25

Utilizing the latest and most advanced laser tracking technology, the X25 Series laser Trackerball<sup>™</sup> is an extremely high specification, contact-less device, ideal for the most demanding of cursor control applications.

The laser tracking engine provides accurate cursor motion at all speeds and on virtually any ball, combining the benefits of solid state sensing (no moving parts except the ball). The X25 trackballs are available with a variety of electrical outputs and sealing to IP68. The solid state design allows the device to be subjected to extreme conditions and provides the user with the ability to wash down, decontaminate, and sterilise, making it the ideal trackball for a wide range of demanding applications and environments.

The unit has been designed to be back of panel mounted as part of OEM keyboards and consoles.





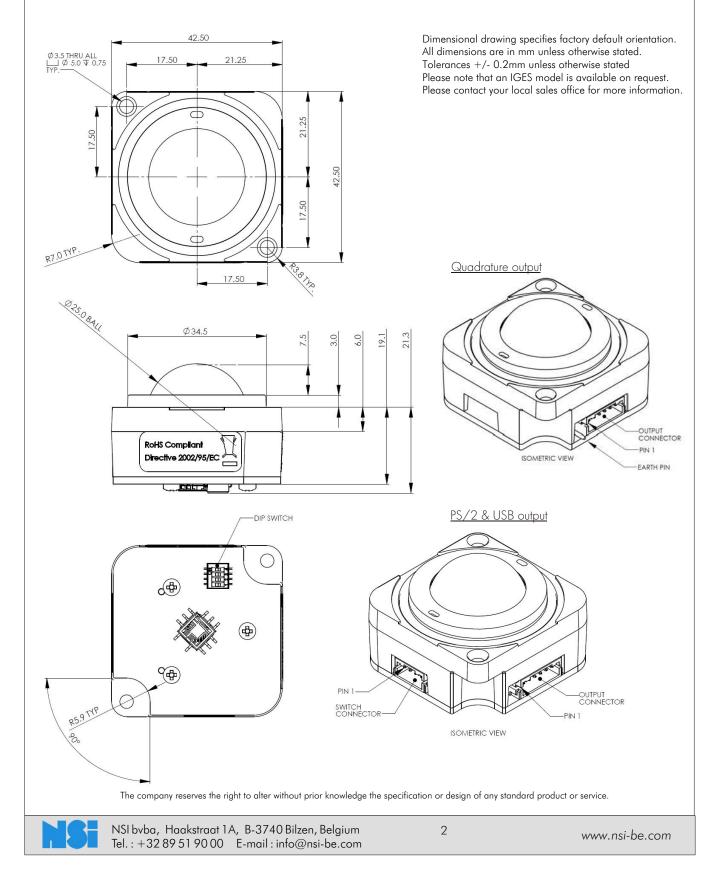
NSI

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 Solid state sensing technology Laser tracking engine

### 25 mm LASER TRACKBALL

### DIMENSIONAL DRAWING



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### CONNECTION DETAILS QUADRATURE OUTPUT

Output Connector : P1

Description: 6 Way JST, right-angled header. Manufacturer: JST (or equivalent) Part No: S6B-PH-SM3-TB Mating connector: PH, CR or KR types (e.g. PHR-6)

| Pin Number | Quadrature |
|------------|------------|
| 1          | X1         |
| 2          | X2         |
| 3          | Vcc        |
| 4          | Y1         |
| 5          | Y2         |
| 6          | GND        |

### CONNECTION DETAILS PS/2 - USB OUTPUT

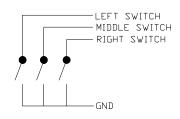
Output Connector : P1

Description: 6 Way JST, right-angled header. Manufacturer: JST (or equivalent) Part No: S6B-PH-SM3-TB Mating connector: PH, CR or KR types (e.g. PHR-6)

| Pin Number | PS/2 & USB     |
|------------|----------------|
| 1          | EARTH          |
| 2          | See note 1     |
| 3          | 5V D.C         |
| 4          | PS/2 Data, D-  |
| 5          | PS/2 Clock, D+ |
| 6          | OV             |

Note 1 : Pin to be left floating (unconnected)

Switch Schematic



### OPTIONAL LEAD ASSEMBLIES

Standard Lead assemblies for connection to the X25 unit are available. Other lead assemblies can also be supplied to customer specifications.

| Part Number | Leads / Adapters  | Description                                   |
|-------------|-------------------|---|
| OC6006160   | Output cable PS/2 | 1,6 m shielded cable with 6 pin mini DIN plug |
| OC5006160   | Output cable USB  | 1,6 m shielded cable with USB type A plug     |
| IC040035    | Switch Input      | 4 way JST style - bare wires, 35 cm long      |
| IC060635    | Interconnection   | Interconnection cable, 35 cm long             |



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Switch Input Connector : P2

Description: 4-way JST, right-angled header. Manufacturer: JST (or equivalent) Part No: S4B-PH-SM3-TB Mating connector: PH, CR or KR types (e.g. PHR-4)

| Pin Number | Function      |
|------------|---------------|
| 1          | Left switch   |
| 2          | Middle switch |
| 3          | Right switch  |
| 4          | OV            |

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### CONFIGURATION

The X25 trackball provides features that may be selected using the DIP switch located on the printed circuit board. This table details the assigned function of each switch.

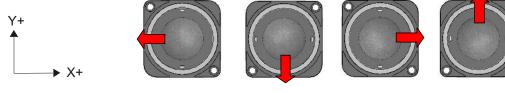
#### **DIP Switch Functions**

| DIP Switch | Function              | OFF          | ON           |
|------------|-----------------------|--------------|--------------|
| 1          | Orientation 1 Setting | See Figure.1 | See Figure.1 |
| 2          | Orientation 2 Setting | See Figure.1 | See Figure.1 |
| 3          | Factory setting       | N/A          | N/A          |
| 4          | Not used              | N/A          | N/A          |

#### Factory default setting: All DIP switches OFF

#### **Orientation**

The orientation function allows the user to mount the X25 trackball device in one of four positions (see figure. 1 below). The orientation of the device is determined by the direction in which the output connector is facing (when viewed from the top of Trackerball device). The trackball orientation can be selected to accommodate customer requirements for connector location and wiring.



| Switch 1 Orientation 1 | Off | On  | Off | On |
|------------------------|-----|-----|-----|----|
| Switch 2 Orientation 2 | Off | Off | On  | On |

Figure.1 Mounting Orientations

### ORDER INFO

| OUTPUT     | DAMPER RING | RUBBER SEAL |
|------------|-------------|-------------|
| Quadrature | X25-70021D  | X25-70022D  |
| PS/2 & USB | X25-76021D  | X25-76022D  |

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